Author index

Aerts, R.J. 336
Aizawa, S. 515
Albrecht, G. 41
Alegre, L. 925
Altmann, T. 979
Alvarez, M.I. 938
Amrhein, N. 599
An, G. 519
Arango, M. 715
Astoul, C.H. 970
Atherfold, P. 97
Azaroual, N. 446

Bacic, A. 261
Bahk, J.D. 143
Baier, R. 157
Bako, L. 407
Baldwin, I.T. 336, 343, 510
Banet, G. 947
Barlow, P. 890
Barnes, J. 454
Barnett, J. 890
Barre, A. 970
Bauch, J. 488
Bauw, G. 589
Beale, S.I. 999
Beaudoin, F. 439
Beck, E. 478
Becker, B. 551
Becker, T.W. 252
Beligni, M.V. 215
Bertero, D. 497
Biemelt, S. 41
Biesgen, C. 979
Bingham, G.E. 400
Biricolti, S. 232
Blasco, J.L. 938
Bligny, R. 468
Boerjan, W. 589
Bölinger, B. 551
Bouinot, D. 279
Boutry, M. 715
Briarty, L.G. 400
Brownleader, M.D. 668
Brücker, G. 529
Brüntrup, I.M. 551
Brzobohaty, B. 407
Bukhov, N.G. 468
Burssens, S. 241

Cairns, A.J. 104, 261
Callow, J.A. 61
Callow, M.E. 61
Cánovas, F.M. 19
Cantón, F.R. 19
Carmona, R. 758
Carr: yol, E. 252
Carvajal, M. 50
Casal, J.J. 497
Catesson, A.-M. 732
Causton, D.R. 104
Chaffey, N. 890
Chak, R.K.F. 875
Chandler, J. 677
Chao, W.S. 563
Charzyńska, M. 630
Chatterjee, A. 607
Chaves, I. 543
Chen, F. 831
Chen, X.-Y. 644
Chen, Z.-H. 9
Cheong, N.E. 143
Cho, H.-J. 195
Cho, M.J. 143
Choi, Y.O. 143
Ciampolini, F. 630
Cibert, C. 732
Clarke, A. 97
Clarkson, D.T. 50
Colon, L.T. 853
Cooke, D.T. 50
Cornic, G. 468
Cornish, K. 85
Cresti, M. 630
Curatti, L. 34
Cyr, R.J. 502

Dean, C. 677
Degenhardt, J. 815
De Graaf B. 956
DeGuzman, R. 921
Delbarre, A. 580
Dell'Orto, M. 985
De Nisi P. 985
De Roover J. 808
Desikan, R. 97
Dey, P.M. 668
Diettrich, B. 683
Dörr, I. 701
Dumas, C. 1, 749

Edwards, G. 765
Edwards, G.E. 115
Eggink, L.L. 897
Ehlers, K. 269
Eibel, P. 132
Ermel, F.F. 732
Esaka, M. 1018
Eslava, A.P. 938
Espen, L. 985
Espie, G.S. 775
Eun, S.-O. 1014

Famiani, F. 9
Farrand, S.K. 195
Feussner, I. 708
Fisahn, J. 391
Fischer, K. 371
Fischer, K.L. 371
Flaschel, E. 157
Fliniaux, M.-A. 446
Flügge, U.-I. 371, 383
Follet-Gueye, M.-L. 732
Fountain, M. 478
Foyer, C.H. 104
Fracheboud, Y. 964
Freundl, E. 222
Fry, S.C. 150
Fu, J. 19
Fujii, N. 515
Fujino, K. 165
Fukui, K. 515
Fukushima, K. 831

Gäbler, R. 336
Galiba, G. 295
Galland, P. 132, 848
Gallardo, F. 19
Gao, M. 865
Garcia-Gutiérrez, A. 19
Gausing, K. 574
Genty, B. 126
Gershenzon, J. 815
Geshi, N. 622
Ghijsen, W.E.J.M. 286
Gittins, J.R. 232
Glaab, J. 801
Goethals, K. 241
Goldberg, R. 732
Goldraij, A. 652
Gómez-Cadenas, A. 636
Govers, F. 853
Granger, C.L. 502
Grappin, P. 279
Grolig, F. 132
Grunow, A. 551
Guenther, J.F. 741
Guerin, J. 914
Guern, J. 580

Hajirezaei, M.R. 41
Hancock, J.T. 97
Hansen, C.E. 823
Hansen, U.P. 792
Hartje, S. 723
Hartmann, E. 529
Hartmann, K. 302
Hartung, W. 222
Haruyama, S. 165
Harwood, J.L. 318
Hause, B. 708
Häusler, R.E. 371, 383
Havir, E.A. 205
Heber, U. 468
Heckel, T. 1
Heide, L. 312
Heinstein, P. 644
Henzler, T. 50
Hepler, P.K. 329, 836
Hewelt, A. 884
Higashitani, A. 515
Hiles, E.R. 232
Hirai, A. 188
Hirel, B. 252
Hirner, A.A. 993
Hirotani, M. 1006
Höhfeld, I. 407
Höhne, M. 708
Holdaway-Clarke, T.L. 329
Holzer, F.M. 563
Homann, U. 423
Hoober, J.K. 897
Hopkins, J. 668
Horie, T. 132

Idzikowska, K. 749
Im, C.-s. 999
Imamura, T. 188
Imhoff, V. 580
Inoue, K. 312
Inzé, D. 241
Ishihara, A. 432
Ishikawa, M. 782
Iturriaga, E.A. 938
Ivanov, B. 765
Iwamura, H. 432

Jackson, P. 668
Jalali, A.A.H. 970
James, D.J. 232
Jaziri, M. 241
Jeong, D.-H. 519
Jørgensen, B. 622
Jullien, M. 279

Kadota, A. 932
Kahl, J. 336
Kaiser, W.M. 801
Kamada, M. 515
Kamigaichi, S. 515
Kamoun, S. 853
Kandlbinder, A. 801
Kato, N. 1018
Kemp, J.D. 844
Keunecke, M. 792
Kim, C.Y. 143
Kim, G.-T. 536
Kim, W.Y. 143
Kindl, H. 708
Kirby, E.G. 19
Klonus, D. 723
Knudsen, J. 683
Kocsy, G. 295
Koerten, H. 286
Kohchi, T. 529
Köhler, L. 691
Kohring, B. 157
Kollmann, R. 269
Koltunow, A. 914
Komine, Y. 897
Kondo, A. 611
Kratz, R.F. 690
Krause, K. 701
Kristoffersen, P. 407
Krupinska, K. 701
Ku, M.S.B. 115
Kuang, A. 400
Kubitscheck, U. 423
Kuellertz, G. 683
Kuhn, A.J. 488
Kühnemann, F. 336
Kuin, H. 286
Kuroda, R. 1006
Kuroyama, H. 782

Lamattina, L. 215
Lamparter, T. 529

Author index

Aerts, R.J. 336
Aizawa, S. 515
Albrecht, G. 41
Alegre, L. 925
Altmann, T. 979
Alvarez, M.I. 938
Amrhein, N. 599
An, G. 519
Arango, M. 715
Astoul, C.H. 970
Atherfold, P. 97
Azaroual, N. 446

Bacic, A. 261
Bahk, J.D. 143
Baier, R. 157
Bako, L. 407
Baldwin, I.T. 336, 343, 510
Banet, G. 947
Barlow, P. 890
Barnes, J. 454
Barnett, J. 890
Barre, A. 970
Bauch, J. 488
Bauw, G. 589
Beale, S.I. 999
Beaudoin, F. 439
Beck, E. 478
Becker, B. 551
Becker, T.W. 252
Beligni, M.V. 215
Bertero, D. 497
Biemelt, S. 41
Biesgen, C. 979
Bingham, G.E. 400
Biricolti, S. 232
Blasco, J.L. 938
Bligny, R. 468
Boerjan, W. 589
Bölinger, B. 551
Bouinot, D. 279
Boutry, M. 715
Briarty, L.G. 400
Brownleader, M.D. 668
Brücker, G. 529
Brüntrup, I.M. 551
Brzobohaty, B. 407
Bukhov, N.G. 468
Burssens, S. 241

Cairns, A.J. 104, 261
Callow, J.A. 61
Callow, M.E. 61
Cánovas, F.M. 19
Cantón, F.R. 19
Carmona, R. 758
Carr: yol, E. 252
Carvajal, M. 50
Casal, J.J. 497
Catesson, A.-M. 732
Causton, D.R. 104
Chaffey, N. 890
Chak, R.K.F. 875
Chandler, J. 677
Chao, W.S. 563
Charzyńska, M. 630
Chatterjee, A. 607
Chaves, I. 543
Chen, F. 831
Chen, X.-Y. 644
Chen, Z.-H. 9
Cheong, N.E. 143
Cho, H.-J. 195
Cho, M.J. 143
Choi, Y.O. 143
Ciampolini, F. 630
Cibert, C. 732
Clarke, A. 97
Clarkson, D.T. 50
Colon, L.T. 853
Cooke, D.T. 50
Cornic, G. 468
Cornish, K. 85
Cresti, M. 630
Curatti, L. 34
Cyr, R.J. 502

Dean, C. 677
Degenhardt, J. 815
De Graaf B. 956
DeGuzman, R. 921
Delbarre, A. 580
Dell'Orto, M. 985
De Nisi P. 985
De Roover J. 808
Desikan, R. 97
Dey, P.M. 668
Diettrich, B. 683
Dörr, I. 701
Dumas, C. 1, 749

Edwards, G. 765
Edwards, G.E. 115
Eggink, L.L. 897
Ehlers, K. 269
Eibel, P. 132
Ermel, F.F. 732
Esaka, M. 1018
Eslava, A.P. 938
Espen, L. 985
Espie, G.S. 775
Eun, S.-O. 1014

Famiani, F. 9
Farrand, S.K. 195
Feussner, I. 708
Fisahn, J. 391
Fischer, K. 371
Fischer, K.L. 371
Flaschel, E. 157
Fliniaux, M.-A. 446
Flügge, U.-I. 371, 383
Follet-Gueye, M.-L. 732
Fountain, M. 478
Foyer, C.H. 104
Fracheboud, Y. 964
Freundl, E. 222
Fry, S.C. 150
Fu, J. 19
Fujii, N. 515
Fujino, K. 165
Fukui, K. 515
Fukushima, K. 831

Gäbler, R. 336
Galiba, G. 295
Galland, P. 132, 848
Gallardo, F. 19
Gao, M. 865
Garcia-Gutiérrez, A. 19
Gausing, K. 574
Genty, B. 126
Gershenzon, J. 815
Geshi, N. 622
Ghijsen, W.E.J.M. 286
Gittins, J.R. 232
Glaab, J. 801
Goethals, K. 241
Goldberg, R. 732
Goldraij, A. 652
Gómez-Cadenas, A. 636
Govers, F. 853
Granger, C.L. 502
Grappin, P. 279
Grolig, F. 132
Grunow, A. 551
Guenther, J.F. 741
Guerin, J. 914
Guern, J. 580

Hajirezaei, M.R. 41
Hancock, J.T. 97
Hansen, C.E. 823
Hansen, U.P. 792
Hartje, S. 723
Hartmann, E. 529
Hartmann, K. 302
Hartung, W. 222
Haruyama, S. 165
Harwood, J.L. 318
Hause, B. 708
Häusler, R.E. 371, 383
Havir, E.A. 205
Heber, U. 468
Heckel, T. 1
Heide, L. 312
Heinstein, P. 644
Henzler, T. 50
Hepler, P.K. 329, 836
Hewelt, A. 884
Higashitani, A. 515
Hiles, E.R. 232
Hirai, A. 188
Hirel, B. 252
Hirner, A.A. 993
Hirotani, M. 1006
Höhfeld, I. 407
Höhne, M. 708
Holdaway-Clarke, T.L. 329
Holzer, F.M. 563
Homann, U. 423
Hoober, J.K. 897
Hopkins, J. 668
Horie, T. 132

Idzikowska, K. 749
Im, C.-s. 999
Imamura, T. 188
Imhoff, V. 580
Inoue, K. 312
Inzé, D. 241
Ishihara, A. 432
Ishikawa, M. 782
Iturriaga, E.A. 938
Ivanov, B. 765
Iwamura, H. 432

Jackson, P. 668
Jalali, A.A.H. 970
James, D.J. 232
Jaziri, M. 241
Jeong, D.-H. 519
Jørgensen, B. 622
Jullien, M. 279

Kadota, A. 932
Kahl, J. 336
Kaiser, W.M. 801
Kamada, M. 515
Kamigaichi, S. 515
Kamoun, S. 853
Kandlbinder, A. 801
Kato, N. 1018
Kemp, J.D. 844
Keunecke, M. 792
Kim, C.Y. 143
Kim, G.-T. 536
Kim, W.Y. 143
Kindl, H. 708
Kirby, E.G. 19
Klonus, D. 723
Knudsen, J. 683
Kocsy, G. 295
Koerten, H. 286
Kohchi, T. 529
Köhler, L. 691
Kohring, B. 157
Kollmann, R. 269
Koltunow, A. 914
Komine, Y. 897
Kondo, A. 611
Kratz, R.F. 690
Krause, K. 701
Kristoffersen, P. 407
Krupinska, K. 701
Ku, M.S.B. 115
Kuang, A. 400
Kubitscheck, U. 423
Kuellertz, G. 683
Kuhn, A.J. 488
Kühnemann, F. 336
Kuin, H. 286
Kuroda, R. 1006
Kuroyama, H. 782

Lamattina, L. 215
Lamparter, T. 529

Lane, A.G. 261
Lassalles, J.-P. 80
Laue, G. 510
Lea, P.J. 9
Lee, J.-Y. 177
Lee, K.O. 143
Lee, S.-H. 143
Lee, S.Y. 143
Lee, Y. 1014
Leegood, R.C. 9
Leipner, J. 964
Levinskikh, M.A. 400
Lewis, C.E. 104
Li, S.-M. 312
Liang, W.-Q. 644
Liu, C.-J. 644
Liu, Q. 27
Lomax, T.L. 906
Loopstra, C.A. 686
Lucas, W.J. 177
Luo, P. 644
Lyons, T. 454

Manaf, A.M. 318
Mandoli, D.F. 690
Mariani, C. 956
Maroco, J.P. 115
Martinez-Zapater, J.M. 677
Marty, D. 446
Marubashi, W. 168
Masuda, K. 165
Matsui, N. 831
Matthys-Rochon, E. 749
Mazzella, M.A. 497
Mehouachi, J. 636
Meins, F. Jr 884
Melkonian, M. 407, 551
Melzer, M. 41
Mercado, J.M. 758
Mesnard, F. 446
Metzner, M. 683
Meyer, S. 126
Meyermans, H. 589
Middleton, K. 261
Migge, A. 252
Miginiac, E. 279
Mijnsbrugge, K.V. 589
Minamikawa, T. 72
Mobasheri, A. 668
Mól, R. 749
Monti, J.-P. 446
Morillon, R. 80
Morvan, C. 732
Mueller-Roeber, B. 723
Mueller-Uri, F. 683
Mukai, C. 515
Muller, P. 580
Munné-Bosch, S. 925
Munnik, T. 286
Musgrave, A. 286
Musgrave, M.E. 400
Müssig, C. 979

Nakano, A. 143
Nakazono, M. 188
Nam, J. 519
Napier, J.A. 439
Neill, S.J. 97
Nicolay, P. 371
Niehaus, K. 157
Niell, F.X. 758
Niwa, M. 168
No, E.-G. 686
Noel, G.R. 195
Nose, A. 611

Okabe, T. 72
Okamoto, T. 72
Ollerenshaw, J. 454
Ootaki, T. 132
Orosz, G. 295
Oufattole, M. 715
Overall, R.L. 329

Palme, K. 407
Park, H. 897
Park, J.B. 143
Pauly, M. 659
Pautot, V. 563
Pellny, T.K. 232
Perasso, L. 551
Peratoner, G. 104
Peters, W. 478
Peterson, R.B. 205
Peumans, W.J. 970
Pick, U. 947
Pilling, J. 391
Pinheiro, C. 543
Plöchl, M. 454
Podolski, I.G. 400
Polacco, J.C. 652
Porchia, A.C. 34
Porterfield, D.M. 607
Preston, C.A. 336, 343, 510
Primo-Millo, E. 636
Prinsen, E. 884
Proost, P. 970
Puryear, J.D. 686

Quatrano, R.S. 875

Randall, J. 844
Redgwell, R.J. 823
Regalado, A.P. 543
Renner, U. 478
Ricardo, C.P.P. 543
Rice, M.S. 906
Riggs, C.D. 921
Ritter, J. 478
Robert, S. 914
Roberts, D.M. 741
Robins, R.J. 446
Rock, C.D. 875
Rodrigues-Pousada, C. 543
Rogowsky, P.M. 1
Roos, W. 347
Rosa, C. 232
Rossel, J.B. 914
Rougé, P. 970
Roux, S.J. 607
Rovira, P. 970
Roy, P. 599
Ruecknagel, K.P. 683

Salerno, G.L. 34
Sasaki, T. 188
Sato, Y. 932
Schäffner, A.R. 50
Schaller, A. 599
Schaller, F. 979
Scheller, H.V. 622, 659
Schiene, K. 157
Schimek, C. 132
Schittko, U. 343
Schlieben, N.H. 371, 383
Schmidt, W. 848
Schreiber, L. 302
Schröder, W.H. 488
Seitz, H.U. 993
Sheridan, W.F. 1
Shimazu, T. 515
Shimmen, T. 836
Shoda, K. 536
Showalter, A.M. 865
Siemens, D.H. 336
Simón-Mateo, C. 241
Sims, I.M. 261
Smith, C.K. 150
Smith, P.S. 607
Smyth, A.J. 50
Sonnewald, U. 41
Sonobe, S. 836
Sotta, B. 279
Spatz, H.-C. 691
Speck, T. 691
Stamp, P. 964
Stanley, M.S. 61
Stéhli, L. 295
Stępka, M. 630
Steudle, E. 50, 222, 302
Stoimenova, M. 801
Stout, S.C. 400
Sue, M. 432
Sung, S.-K. 519
Suzuki, H. 1006
Sychev, V.N. 400
Szalai, G. 295

Tadeo, F.R. 636
Takahashi, H. 515
Takeuchi, Y. 782
Talon, M. 636
Tan, X.-P. 644
Técsi, L.I. 9
Thiel, G. 423
Thomas, M. 884
Thomas, T.L. 875
Tiller, H. 478
Tominaga, M. 836
Trevan, M. 668
Truffa-Bachi, P. 970
Tsuchiya, T. 914
Tsukaya, H. 536
Tsumuraya, Y. 782
Tsutsumi, N. 188
Uchimiya, H. 536
Ueno, O. 611
Ulvskov, P. 622

Vágújfalvi, A. 295
Valdes, O. 478
Van Damme E.J.M. 970
Vandenbranden, K. 808
van den Ende H. 286
Van den Ende W. 808
van der Kooij T.A.W. 701
van Dooijeweert W. 853
Van Laere A. 808
Van Montagu M. 241, 589
Van Onckelen H. 884
Velayos, A. 938
Vereecke, D. 241
Vermeersch, G. 446
Vian, B. 732
Vidal, S. 543
Vidali, L. 836
Vleeshouwers, V.G.A.A. 853
Voesenek, L.A.C.J. 956
Vriezen, W.H. 956

Wada, M. 932
Walker, N.A. 329
Walker, R.P. 9
Walling, L.L. 563
Waterhouse, R.N. 50
Weger, H.G. 775
Weichert, H. 708
Weiler, E.W. 979
Werner, K. 1
Widholm, J.M. 195
Wiese, C. 468
Willmitzer, L. 391
Windle, J.J. 85
Winicov, I. 416
Wolfe, K.W. 27
Womack, J.S. 844
Wood, D.F. 85

Xiao, Y. 400

Yamada, T. 168
Yamamoto, H. 312
Yamauchi, D. 72
Yamazaki, Y. 515
Yasuda, S. 831
Yokota, E. 836
Yoo, B.-C. 177
Yoshikawa, T. 1006
Yoshizaki, I. 515
Yu, G.-H. 519
Yuasa, H. 611

Zamir, A. 947
Zeidler, M. 529
Zhang, W. 970
Zhong, P.-Y. 72
Zimmermann, H.M. 302
Zimmermann, S. 723
Zocchi, G. 985

Subject index

Abscisic acid 126, 222, 279, 677
Abscission (fruit) 636
Acetyl-CoA 659
O-Acetyl transferase 659
Actin 563, 1014
Actin bundling protein 836
Actin filament 836
Active site (modified) 574
Acyl lipid 318
Acyl-CoA 683
Acyl-CoA-binding-protein 683
Acylnornicotine 510
Adhesion (algal) 61
Aesculus (horse-chestnut) 890
Ageing 478
Agrobacterium 195
Alkaloid 446
Allium 80
Amino acid biosynthesis 19
1-Aminocyclopropane-1-carboxylic acid 636
Aminopeptidase 563
Ammonium assimilation 252
Anabaena sp. (sucrose metabolism) 34
Angiosperm 831
Anther development 921
Anthocyanin 993
Antioxidant 925, 964
Antisense repression/overexpression 371, 383
Apomixis 914
Apoplast 792
Apoplastic barrier 302
Apoptosis 168
Aquaporin 50, 741
Arabidopsis 97, 497, 875, 979
Arabidopsis (flowering time) 677
Arabidopsis (mutant *lec1*) 536
Arabidopsis (oleosin) 439
Arabidopsis (photosynthesis) 205
Arabinogalactan-protein 686, 865
Arginase (location, activity) 652
Arginine (uptake, degradation) 652
Aristolochia (stem biomechanics) 691
Ascorbate 765, 1018
Ascorbate oxidase 1018
Ascorbic acid 454
Asparagine 9
ATP 792
Auxin 580
Auxin sensitivity 906
Auxin transport inhibitors 906

Baicalein 1006
Baicalin 1006
Biofouling 61
Biomechanics 691
Biomembrane (rubber particles) 85
Blue light 932
Blue light-induced transcription 938
Brassica 80
Brassica (development, spaceflight) 400
Buoyance 848

C_3 plant (electron transport) 468
C_4 photosynthesis 115, 765
Ca^{2+} mapping 347
Cadinene 644
Calcium 286, 488, 607
Calcium (cytoplasmic free) 329
Calcium-dependent protein kinase 741
Cambium 732
Carbohydrate 104
Carbohydrate metabolism 41, 371
Carbohydrate supply 636
Carbon partitioning 371, 383
Carbonic anhydrase 758
Carotenoid biosynthesis 938
Carrier (auxin) 580
Cation distribution 391
Cbr localization 947
Cell coat 61
Cell culture 478
Cell cycle 27, 241
Cell death 478
Cell differentiation 865
Cell elongation/expansion 1018
Cell expansion 668
Cell wall 630, 659, 897
Cell wall (extensin) 668
Cell wall (pectin) 782
Cell wall polysaccharides 823
Cell wall thickening 865
Cell-suspension culture 261
Cell-to-cell transport 177
Cellular signal transduction 347
Cellulose microfibril orientation 691
Ceratodon 529
Ceratopteris (Ca, gravity) 607
Chalcone synthase 993
Chenopodium (cell culture) 478
Chitin elicitor 157
Chitinase 543
Chlamydomonas 286, 775
Chlamydomonas (chlorophyll biosynthesis) 999
Chlamydomonas (vacuolar granules) 897
Chlorophyll 19, 925
Chlorophyll *a* fluorescence 775, 964
Chlorophyll biosynthesis 999
Chlorophyll fluorescence 468, 765
Chloroplast 932
Chromatin condensation 168
Chromosome 5A 295
Cichorium (drought stress) 808
Citrus (fruit abscission) 636
CO_2 enrichment 104, 115
Cocoa 823
Cold hardening 295
Cold shock 329
Cold-responsive gene 875
Commelina 1014
Compartmentation (ascorbate) 454
Compositional analysis 261
Computer model 454
Confocal ion topography 347
Coniferyl alcohol 831
Control analysis 383
Copper-inducible promoter 502
Cotyledon 536
Crassulacean acid metabolism 611
Cryptochrome 497
Cucumis (Fe-deficiency) 985
Cucumis (peg formation) 515
Cuscuta 701
Cyanobacterium 34
Cyclic electron transport 468
Cyclic hydroxamic acid 432
Cysteine protease inhibitor 844
Cytochrome P-450 312
Cytodifferentiation 890
Cytokinin 407, 884
Cytokinin conjugate 407
Cytoskeleton 502
Cytosolic NADH 801
Cytosolic nitrate 801

Daucus 875, 993
Daucus (mitosis) 165
De-etiolation 215
Defence response 97, 563
DEFICIENS homologue 914
Defoliation 636
Detoxification (ozone) 454
Developmental phase 478
Developmental polarity 607
Diazepam-binding inhibitor 683
Differential display 143
Differentiation 261
Differentiation (cambial derivatives) 732
Digitalis 241, 683
Diterpene 925
Diurnal cycle 50
DNA fragmentation 168
Drought 808, 875, 925
Dunaliella (LHCIIb) 947
Dye-coupling 269

Egg cell (differentiation) 749
Elaeis 318
Electron transport 126
Electrophysiology (higher plant) 329
Elongation (leaf) 956
Elongation growth 391
Embryo development 1
Embryo sac (maturity) 749
Embryo-specific mutants 1
Endocytosis 423
Endodermis 302
Endoplasmic reticulum 439
Energy dissipation 205
Enteromorpha (adhesion) 61
Ethylene 336, 956
Euphorbia 85
Exocytosis 897
Exodermis 222, 302
Expansin 956
Extensin peroxidase 668
Extracellular polysaccharide 261

F_1F_0-ATPase inhibitor protein 188
Female receptivity 749
Fermentation 823
Ferric reductase 775
Ficus 85
Flagellar regeneration 551
Flaveria 371
Flavonoid 7-*O*-glucosyl-transferase gene 1006
Flower and fruit development 519
Fluorescence ion imaging 347
Fluridone 279
FM1-43 fluorescence internalisation 423
Foliage leaf 536
Frost tolerance 295
Fructan 808
Functional analysis 143
Fungal elicitor treatment 143
Fusicoccin 599, 985, 1014

Galactan 622
Galactosyltransferase 622
Gas exchange 775
Gene expression (chitinase, *IF3*) 543

Gene expression (drought induced) 808
Gene expression (*rsh1*) 574
Gene family 715
Gene promoter 232
Geranylhydroquinone 3″-hydroxylase 312
Germination 279
Gibberellin 677
β-Glucosidase 407, 432
β-Glucuronidase 232
Glucuronomannan 150
Glutamate synthase 252
Glutamine synthetase 19, 252
Glutathione 295
Glycerol 3-phosphate acyltransferase (properties, purification) 318
Glycine (hairy roots) 195
Glycine (hypocotyl) 782
Glycine (N reserve) 652
Glycolysis 41
Glycoprotein 61
Glycoprotein immunolocalization 551
Golgi apparatus 551
Gossypium 644
Gossypol 644
Gracilaria 758
Gravitropism 132, 848, 906
Gravity 515, 607
Gravity-induced absorbance change 848
Green fluorescent protein 188, 195, 502, 529
Growth rate 630
Guard cell 423, 1014

H^+-ATPase 715
Habituation 884
Hairy roots 195
Hairy root culture 1006
Harpin 97
Heme oxygenase 529
Hemicellulose 823
Heteroblasty 536
Heterodera 195
Heterologous expression 993
Hevea 85
(2*E*)-Hexenal 708
$HgCl_2$ 80
Hieracium (apomixis) 914
Hordeum (S-like RNase homologue) 574
Hormone autotrophy 884
Hybrid lethality 168
Hydraulic conductivity 50, 222, 302
Hydrocharis 836
3″-Hydroxy-geranylhydroquinone 312
Hypersensitive response 853
Hypocotyl elongation 215, 906
Hypocotyl growth 668
Hypoxia 41

Immunolocalization 407
Induced defense 336, 343, 510
Inhibitor 668
Inhibitor (PD98059) 97
Insect cell cultures 979
Interspecific hybrid 168
Intracellular localization (PPDK) 611
Intracellular pH 985
Ion compartmentation 347
Ion current 607
Ion uptake 488
Iontophoresis 329
Iron deficiency 985
Iron limitation 775
Irradiance 758
IV-Curves 792

Jacalin 970
Jasmonate biosynthesis 979
Jasmonic acid 336, 343, 708

Knotted1 884

Lamiaceae 1006
Late-embryogenesis-abundant protein 875
Leaf (light-induced gene) 574
Leaf (lipoxygenase) 708
Leaf apoplast 454
Leafy gall 241
LeAGP-1 865
Lectin 970
L-Galactono-1,4-lactone 964
Light regulation (*Gsa* gene) 999
Light response 215
Light stress 947
Light-harvesting complex IIb 947
Light-induced absorbance change 848
Lignification 589
Lignin 302, 691
Lignin biosynthesis 831
Lilium (anther development) 921
Lipoxygenase 708
Lithospermum 312
Lolium (CO_2 enrichment) 104
Lotus (aquaporin) 50, 741
Lucifer Yellow (microinjection) 269
Lupinus (chitinase) 543
Lutein 947
Lycopersicon 599
Lycopersicon (AGPs) 865
Lycopersicon (defense response) 563
Lycopersicon (extensin) 668
Lycopersicon (K^+ channel) 723
Lycopersicon (mutant *diageotropica*) 906

MADS-box gene (*MdMADS3*, *MdMADS4*) 519
Magnesium 488
Major intrinsic proteins 741
Malus (MADS-box gene) 519
Malus (transgenic) 232
Manduca 343
Mastoparan 286
Medicago 157
Medicago (transgenic) 416
Meiosis 27, 921
Membrane capacitance 423
Membrane transport 580
Mesocarp 318
Methyl jasmonate 72, 510
Methyltransferase 782
Microfilaments 890
Microgravity 400, 515
Micropropagation 241
Microsporogenesis 27, 921
Microtubule 502
Microtubule-associated protein (MAP4) 502
Mitochondrion 188, 652
Mitogen-activated protein kinase 97
Mitosis 165
Mitosis (synchronization) 269
Morphogenesis (negative control) 515
Moss 529
Mucor 938
Mutant (*Arabidopsis*) 205, 536
Mutant (*dgt* tomato) 906
Mutant (maize) 27
Mutant (maize, *emb*) 1
Mutator tagging 1
Mycorrhiza 488
myo-Inositol 150

NAD(P)-malic enzyme 611
nahG-tobacco 599
Naphthoquinone 312
Nerolidol 815
Nicotiana 157, 241, 343, 502, 715, 884
Nicotiana (NH_4^+ assimilation) 252
Nicotiana (apoptosis) 168
Nicotiana (cultured cells) 580
Nicotiana (herbivory) 336
Nicotiana (induced defense) 510
Nicotiana (N metabolism) 446
Nicotiana (seed dormancy) 279
Nicotiana (transgenic) 371, 383, 708, 1018
Nicotine 336, 510
Nifedipine 607
Nitrate reductase 801
Nitrate reduction in vivo 801
Nitric oxide 215
Nitrogen assimilation 19
Nitrogen metabolism 9, 446
Nitrogen-fixing symbiosis 741

Nod factors 157
Nodulin 26 741
Nonhost resistance 853
Non-photochemical quenching 765
Nuclear envelope 165
Nuclear lamina 165
Nuclear matrix 165
Nuclear pore complex 177
Nuclear/cytoplasmic exchange 177

Oleosin 439
Oligosaccharide 150
Oligosaccharin biosynthesis 150
Oral secretions 343
Ornithogalum 630
Oryza 188
Oryza (rab-GDIs) 143
Oryza (salt stress) 970
Oryzacystatin 844
Osmotic shrinking 423
Osmotic water permeability 80
Overexpression (glutamine synthetase) 252
Ovule 914
Oxidative burst 157
12-Oxophytodienoate reductase (overexpression) 979
12-Oxophytodienoate reductase (stereospecificity) 979
Ozone 454

$p34^{cdc2}$ 27
Paracrystalline proteins 132
Parthenium 85
Patch clamp (whole cell) 792
Pathogen signaling 143
Pathogenesis-related protein 543, 599
Pectic polysaccharide 823
Pectin (immunolocalization) 732
Pectin (methyl-esterification) 782
Pectin 622, 630, 659
Pectin methyl esterase 391
Peg formation 515
Peripheral-type benzodiazepine receptor 683
pH 758
pH mapping 347
pH regulation 723
Phaseolus (storage protein) 72
Phenolic compound 853
Phosphoenolpyruvate carboxykinase 9
Phospholipase C 286
14-3-3- phosphonitrate reductase 801
Photomovement 932
Photooxidative stress 964
Photoreceptor 215

Photosynthesis 104, 205, 468, 701, 758
Photosystem I 468
Photosystem II 205, 468
Phototropism 529
Phycomyces 848
Phycomyces (gravitropism) 132
Physcomitrella 529
Physcomitrella (moss) 932
Phytoalexin 644
Phytochrome 497, 529, 932
Phytochrome B 677
Phytoene dehydrogenase 938
Phyto-glycolipid 150
Phytohormone 478, 636
Phytophthora 853
Picea (root) 488
Pinus (AGP) 686
Plant volatiles 815
Plant-insect interaction 815
Plasma membrane 50, 551, 715
Plasma-membrane H^+-ATPase 599
Plasmodesmata 177, 329
Plasmodesmata (regulation) 269
Plastid 701
Plastome 701
Poaceae 261
Pod 72
Pollen tube 630
Pollination signal 749
Polyphosphate 897
Pome 519
Populus 19, 589
Populus (pectins) 732
Potassium inwardly rectifying channel 723
Pressure probe 50
Protease 921
Protein (degradation, turnover) 563
Protein database 589
Protein microsequencing 589
Protein phosphatase 875
Protein phosphorylation 801
Protein synthesis, degradation 72
Protein targeting 844
Protein trafficking 177
Proteinase 921
Proteomics 589
Protoplast 1018
Protoplast culture 269
Pyruvate, Pi dikinase 611

Rab-specific GDP dissociation inhibitor 143
Regeneration 241
Resistance (*R*) genes 853
Respiration 104, 115
Rhamnogalacturonan I 622, 659
Ribulose-1,5-bisphosphate carboxylase-oxygenase 104, 126, 758
Ribulose-1,5-bisphosphate carboxylase/oxygenase (SSU) 232
RNase S-like homologue 574
Root (ABA transport) 222
Root growth 416
Root hair 723
Root hair cell 836
Root mucilage 261
Rosa (extracellular oligosaccharide) 150
Rosa (photosynthesis, stress) 126
Rosmarinus (drought stress) 925
Rubber particle (structure) 85
Rumex (expansins) 956

Salicylic acid 599
Salt stress 970
Salt tolerance 416
Scale 551
Scherffelia 551
Scutellaria flavonoids 1006
Secondary vascular tissue 890
Secretion (glycoprotein) 61
Seed (lipoxygenase) 708
Seed 400
Seed development 9
Seed dormancy 279
Seed germination 215
Seed-specific gene expression 439
Sesquiterpene cyclase 644
Shikonin 312
Signal peptide 844
Signal transduction 999
Signalling 286
Sinapyl alcohol 831
Solanum 41
Solanum (cell wall) 659
Solanum (disease resistance) 853
Solanum (K^+ channel) 723
Solanum (mitosis, plasmodesmata) 269
Solanum (stem elongation) 391
Soybean cyst nematode 195
Spaceflight 400
Spodoptera 815
Sporangiophore 132
Stable isotope (tracer) 488
Starch 400
Starch metabolism 383
Starch mobilisation 371
Statolith 132, 848
Stem growth 497
Stomatal and metabolic inhibition 126
Stress protein 970
Structure-activity 580
Suberin 302
Submergence 956
Sucrose 34, 808
Sucrose synthase 34, 41

Terpene biosynthesis 815
Theobroma 823
Thylakoid 701
Tissue culture 318, 884
Transcription factor (Alfin1) 416
Transgene expression (*gusA*) 232
Transgenic *Arabidopsis* 439
Transgenic apple 232
Transgenic plant 416
Transgenic potato 41
Transgenic tobacco 252, 1018
Transgenic trees 19
Transport inhibitor (auxin) 580
Transvacuolar strand 836
Trichome 510
Triose phosphate/phosphate translocator 371, 383
Triticum 295
Triticum (β-glucosidase) 432
Tyrosine phosphorylation 97

Ultraviolet light 993
Units, symbols, abbreviations 172

Vacuolar granules 897
Vacuole 80, 132
Vascular cambium 890
Vegetative development 497
Vernalization 677
Vicia (guard cell protoplast) 423
Villin 836
Vitis (seed development) 9
Volatile emission 336

Water stress 126
Water transport 222
Wood 890
Wood formation 589
Wounding 72, 510, 563

Xanthophyll cycle 925, 964
Xenopus oocytes 723
X-ray analysis 691
Xylem 686, 792, 865

Yeast elicitor 157

Zea (CO_2 enrichment) 115
Zea (egg cells) 749
Zea (electrophysiology) 329
Zea (herbivory) 815
Zea (light stress) 964
Zea mays (mutants) 1
Zea (*polymitotic* mutant) 27
Zea (root, water transport) 302
Zea 222, 407
Zea mesophyll chloroplasts 765
Zeaxanthin 205, 947